

GPS RECEIVER WITH IMPROVED IMMUNITY TO BURST TRANSMISSIONS**Priority Claim**

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This application claims the benefit of U.S.
Application No. 10/147,983 filed May 20, 2002, ^{now US Patent No. 6,681,181,} which is
5 hereby incorporated by reference in its entirety.

Field of the Invention

The invention relates to spread-spectrum
communications and, in particular, to an improved GPS
receiver in close proximity to a radio frequency
10 transmitter.

Background

The basic functionality of a Global Positioning
System (GPS) receiver is to calculate the latitude,
longitude and altitude of the GPS receiver's location (i.e.,
15 the co-ordinates of the receiver) upon receiving a number of
GPS signals from a network of GPS satellites that orbit the
earth. The calculation of the co-ordinates of the GPS
receiver typically begins by comparing the timing associated
with a select number of received GPS signals. After the
20 initial comparison of the received GPS signals, values for
timing corrections associated with the select group of
received GPS signals are established. The timing
corrections are made in order to solve a three-dimensional
geometric problem, which has as its solution the co-
25 ordinates of the GPS receiver.

The received GPS signals are typically weak and
thus easily interfered with by other radio transmissions in
the same or adjacent frequency bands. Interference can be